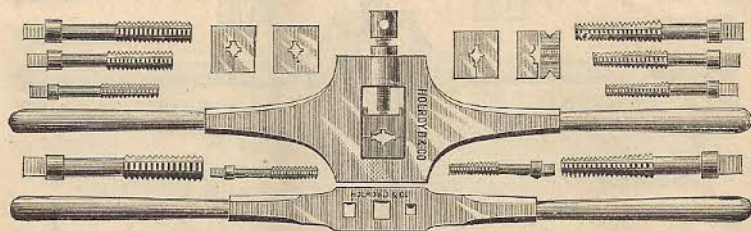


MACHINISTS' STOCKS AND DIES.



- K. No. 1 { CUTS 2 IN. TO $1\frac{1}{2}$ INCLUSIVE, RIGHT HAND.
 Size.....2 in., $1\frac{3}{4}$ in., $1\frac{1}{2}$ in., $1\frac{3}{8}$ in., $1\frac{1}{4}$ in. and $1\frac{1}{8}$ in. Plug and Taper Taps.
 No. Threads, $4\frac{1}{2}$ 5 6 6 7 7 or 8 to the inch.
 12 Taps, 6 pair of Dies and 2 Tap Wrenches.
 PRICE \$90.00

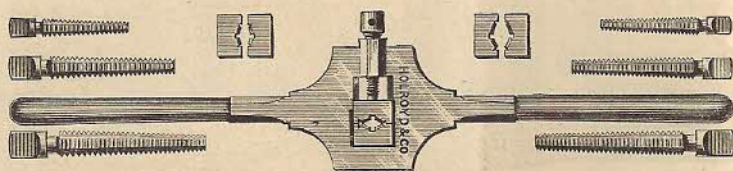
- K. No. 2 { CUTS $1\frac{1}{2}$ IN. TO $\frac{7}{8}$ IN. INCLUSIVE, RIGHT HAND.
 Size..... $1\frac{1}{2}$ in., $1\frac{3}{8}$ in., $1\frac{1}{4}$ in., $1\frac{1}{8}$ in., 1 in. and $\frac{7}{8}$ in. Plug and Taper Taps.
 No. Threads, 6 6 7 7 or 8 8 9 to the inch.
 12 Taps, 6 pair of Dies and Wrench.
 PRICE \$40.00

- K. No. 3 { CUTS $1\frac{1}{2}$ IN. TO $\frac{3}{4}$ IN. INCLUSIVE, RIGHT HAND.
 Size..... $1\frac{1}{2}$ in., $1\frac{1}{8}$ in., 1 in., $\frac{7}{8}$ in. and $\frac{3}{4}$ in. Plug and Taper Taps.
 No. Threads, 7 7 or 8 8 9 10 to the inch.
 10 Taps and 5 pair of Dies and Wrench.
 PRICE \$30.00

- K. No. 4 { CUTS 1 IN. TO $\frac{1}{2}$ IN. INCLUSIVE, RIGHT HAND.
 Size.....1 in., $\frac{7}{8}$ in., $\frac{3}{4}$ in., $\frac{5}{8}$ in. and $\frac{1}{2}$ in. Plug and Taper Taps.
 No. Threads, 8 9 10 11 12 or 13 to the inch.
 10 Taps, 5 pair of Dies and Wrench.
 PRICE \$20.00

- K. No. 5 { CUTS $\frac{3}{4}$ IN. TO $\frac{1}{4}$ IN. INCLUSIVE, RIGHT HAND.
 Size..... $\frac{3}{4}$ in., $\frac{5}{8}$ in., $\frac{1}{2}$ in., $\frac{3}{8}$ in. and $\frac{1}{4}$ in. Plug and Taper Taps.
 No. Threads, 10 11 12 or 13 16 20 to the incl.
 10 Taps, 5 pair of Dies and Tap Wrench.
 PRICE \$15.00

STOCKS AND DIES.



No.	Inches to Inch.			Inches to Inch.			Taps.	Dies.	Each.	
1.	Cuts	2	1	right hand;	2	1	left hand,	8	4	\$60 00
2.	"	2	$\frac{7}{8}$	"			"	8	4	60 00
3.	"	$1\frac{3}{4}$	$\frac{7}{8}$	"	$1\frac{3}{4}$	$\frac{7}{8}$	"	8	4	45 00
4.	"	$1\frac{3}{4}$	$\frac{3}{4}$	"			"	8	4	45 00
5.	"	$1\frac{1}{2}$	$\frac{3}{4}$	"	$1\frac{1}{4}$	$\frac{3}{4}$	"	8	4	35 00
5 $\frac{1}{2}$.	"	$1\frac{1}{2}$	$\frac{3}{4}$	"			"	8	4	35 00
7.	"	$1\frac{1}{4}$	$\frac{1}{2}$	"	$1\frac{1}{4}$	$\frac{7}{8}$	"	6	3	12 00
9.	"	$1\frac{1}{4}$	$\frac{1}{2}$	"			"	6	3	12 00
17.	"	1	$\frac{1}{2}$	"	1	$\frac{3}{4}$	"	6	3	9 00
19.	"	1	$\frac{1}{2}$	"			"	6	3	9 00
25.	"	$\frac{3}{4}$	$\frac{3}{8}$	"	$\frac{3}{4}$	$\frac{1}{2}$	"	6	3	6 50
27.	"	$\frac{3}{4}$	$\frac{3}{8}$	"			"	6	3	6 50
45.	"	$\frac{5}{16}$		"	$\frac{5}{8}$	7-16	"	6	3	5 50
47.	"	$\frac{1}{4}$		"			"	6	3	5 50
49.	"	$\frac{1}{4}$		"	$\frac{1}{2}$	5-16	"	6	3	4 50
51.	"	$\frac{3}{16}$		"			"	6	3	4 50

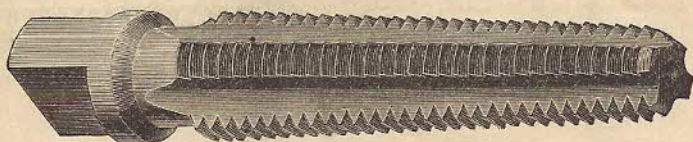
All above Stocks and Dies are style of cut at top of page.



No.	Inches to Inch.			Inches to Inch.			Taps.	Dies.	Each.	
6.	Cuts	1½	1	right hand;	1½	1	left hand,	4	2	\$20 00
11.	"	1¼	5⁄8	"	1¼	7⁄8	"	4	3	10 00
15.	"	1¼	5⁄8	"				5	3	10 00
21.	"	1	1	"	1	¾	"	4	3	6 00
23.	"	1	5⁄8	"				3	3	5 00
32.	"	¾	¾	"	¾	¾	"	4	4	5 00
33.	"	¾	¾	"	¾	½	"	2	2	4 00
34.	"		5-16	"				3	3	4 50
35.	"		3⁄8	"				2	2	4 00
37.	"		3-16	"				6	3	4 25
38.	"		5-16	"	5⁄8	7-16	"	6	3	4 50
41.	"		1⁄8	"				6	3	3 25
42.	"		3-16	"	½	5-16	"	6	3	3 50
53.	"	5-16	1-16	"				4	4	2 75

From No. 6 to bottom of page, similar in style to cut above No. 6.

BLACKSMITHS' TAPER TAPS.

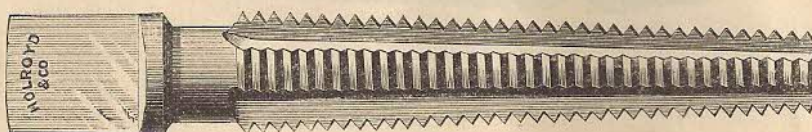
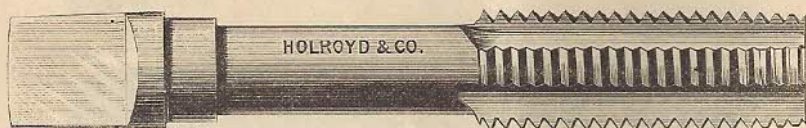


RELIEVED.

Diameter.	No. of Threads to Inch.			Taps in Each Box.	Price Each.
$\frac{1}{4}$	18	20	24	6	\$ 30
5-16	16	18	20	6	30
$\frac{3}{8}$	14	16	18	6	35
7-16	14	16	18	6	40
$\frac{1}{2}$	12	14	16	6	40
9-16	...	12	14	6	50
$\frac{5}{8}$	10	11	12	6	50
$\frac{3}{4}$	...	10	12	6	65
$\frac{7}{8}$	...	9	10	4	90
1	...	8	...	2	25
$1\frac{1}{8}$	...	7	8	2	1 50
$1\frac{1}{4}$	...	7	8	2	1 75
$1\frac{1}{2}$	...	6	...	2	3 00

The Blacksmiths' Taps are no more expensive than those ordinarily sold by the hardware trade. They are very carefully made, are accurate as to lead and temper, and being properly relieved, are more durable, and will cut a thread with ease.

EXTRA TAPER AND PLUG TAPS.



PUT UP IN BOXES.

Size.	NUMBER OF THREADS TO INCH.				Price Each.
	Right.	Taps in Each Box.	Left.	Taps in Each Box.	
$\frac{1}{8}$ inch.	30 and 32	6			\$ 30
$\frac{3}{16}$ "	24, 26 and 28	6			30
$\frac{1}{4}$ "	16, 18, 20, 22, 24 and 26	6			30
$\frac{5}{16}$ "	14, 16, 18, 20 and 22	6			30
$\frac{3}{8}$ "	12, 14, 16 and 18	6			35
$\frac{7}{16}$ "	12, 14, 16 and 18	6	14	6	40
$\frac{1}{2}$ "	10, 12, 14 and 16	6	12 and 14	4	40
$\frac{9}{16}$ "	12 and 14	6	12	4	50
$\frac{5}{8}$ "	10, 11, 12 and 14	6	10 and 12	4	50
$\frac{3}{4}$ "	7, 8, 9, 10 and 12	6	10 and 12	4	65
$\frac{7}{8}$ "	8, 9 and 10	4	9	4	90
1 "	7, 8, 9 and 10	2	8 and 9	2	1 25
1 $\frac{1}{4}$ "	6, 7, 8 and 9	2	8 and 9	2	1 75
1 $\frac{1}{2}$ "	6, 7 and 8	2	6, 7 and 8	2	3 00

TAP WRENCHES.



These Wrenches are well finished in every respect, have Steel Dies, and are strong and durable.

No. 0.	5½ inches long, fitting Taps 1-16 to ¼ inch.....	\$1 00
No. 1.	8 inches long, fitting Taps ¼ to ⅜ inch.....	1 50
No. 2.	12 inches long, fitting Taps ⅜ to ½ inch.....	2 00
No. 3.	14 inches long, fitting Taps ½ to ⅞ inch.....	3 00
No. 4.	19 inches long, fitting Taps ⅞ to 1¼ inch.....	4 00
No. 5.	24 inches long, fitting Taps 1¼ to 1½ inch.....	5 25

HUB TAPS FOR CUTTING DIES.



These we make to order at 25 per cent. advance on Nut Tap List.

All orders are filled with Hubs exact diameter of order with V thread, unless otherwise stated.

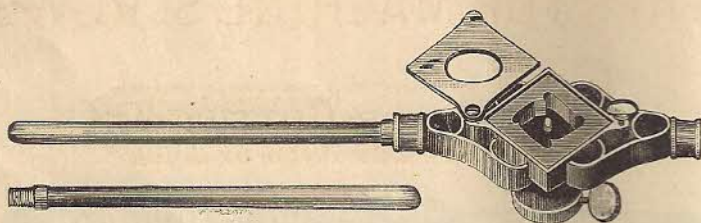
If wanted for cutting Screw Plate Dies, we make them considerably over size, but call the Hubs by the size of bolt to be cut, and designate it as a Screw Plate Die Hub.

SCREW PLATES WITH SOLID DIES.

FOR THREADING GAS PIPE.



No. 0. Solid Die Plate, cutting $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$ and $\frac{1}{2}$ inch.....\$10 00



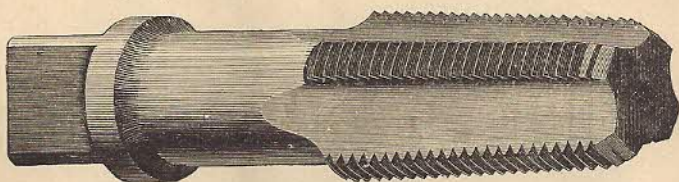
No. 2. Cutting $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$ and 1 inch.....\$20 00

Extra Dies, each, \$3 00.

No. 4. Cutting $1\frac{1}{4}$, $1\frac{1}{2}$ and 2 inches, with Driving Screw.....\$30 00

Extra Dies, each, \$5 00.

PIPE TAPS AND REAMERS.



Pipe Taps, with right or left-hand threads, and Reamers are made of the following sizes and kept in stock. Pipe Hobs, $\frac{1}{8}$ to 6 inch diameter, are furnished to order at special prices.

Diameter.	Price.	Diameter.	Price.	Diameter.	Price.
$\frac{1}{8}$ in.	\$1 12	1 in.	\$3 12	$2\frac{1}{2}$ in.	\$10 50
$\frac{1}{4}$ in.	1 25	$1\frac{1}{4}$ in.	3 75	3 in.	15 00
$\frac{3}{8}$ in.	1 50	$1\frac{1}{2}$ in.	4 62	$3\frac{1}{2}$ in.	22 00
$\frac{1}{2}$ in.	1 87	2 in.	6 25	4 in.	33 00
$\frac{3}{4}$ in.	2 50				

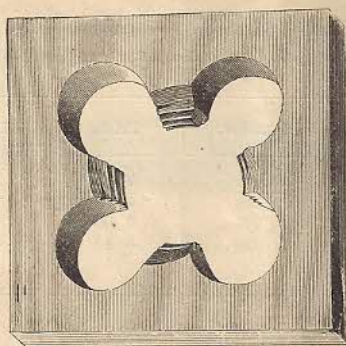
TAPS FOR MACHINE SCREWS.



Made of Stubs' steel wire, accurately cut, finely finished and well tempered. Less than six of one size will be charged as single taps.

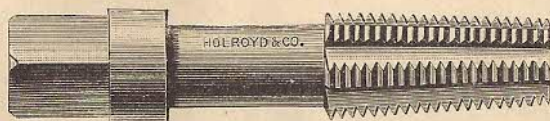
Diameter.	Wire Gauge Size	No. Threads to Inch.	Price.	
			Each.	Price.
7-64	No. 4	32 36 40 ...	\$ 35	\$4 00
9-64	" 6	30 32 36 40 ...	35	4 00
$\frac{1}{8}$	" ...	30 32 36 48 ...	35	4 00
5-32	" 8	30 32 36 ...	35	4 00
3-16	" 10	20 22 24 30 32	35	4 00
7-32	" 12	20 22 24 ...	35	4 00
$\frac{1}{4}$	" 14	16 18 20 22 24	38	4 40
17-64	" 16	16 18 20 22 ...	38	4 40
9-32	" 18	16 18 20 ...	38	4 40
5-16	" 20	16 18 20 ...	45	5 30
$\frac{3}{8}$	" 24	14 16 18 ...	45	5 30

MACHINE OR SOLID BOLT DIES.



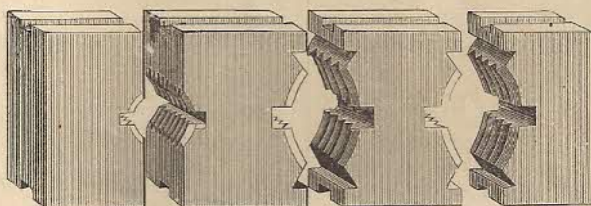
Diameter.	No. Threads to Inch.	Size of Square.	Price Each.
$\frac{1}{4}$	20	$2\frac{1}{2}$	\$1 80
$\frac{3}{8}$	18	$2\frac{1}{2}$	1 80
$\frac{1}{2}$	16	$2\frac{1}{2}$	1 80
$\frac{3}{4}$	14	$2\frac{1}{2}$	1 80
$\frac{7}{8}$	12	$2\frac{1}{2}$	1 80
1	11	$2\frac{1}{2}$	2 00
$1\frac{1}{8}$	10	$2\frac{1}{2}$	2 25
$1\frac{1}{4}$	9	$2\frac{1}{2}$	2 40
$1\frac{3}{8}$	8	$2\frac{1}{2}$	2 70
$1\frac{1}{2}$	7	$2\frac{1}{2}$	3 00
$1\frac{3}{4}$	7	$2\frac{1}{2}$	3 30
$1\frac{7}{8}$	6	$2\frac{1}{2}$	3 60
2	6	$2\frac{1}{2}$	3 90
	$5\frac{1}{2}$	3	4 20
	5	3	5 40
	$4\frac{1}{2}$	$3\frac{1}{4}$	6 50
		$3\frac{3}{4}$	7 50

PIPE TAPS AND REAMERS.

MACHINE
TAP.

PRICE.....	..\$1 12	\$1 25	\$1 50	\$1 87	\$2 50	\$3 12
DIAMETER...	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1 in.
PRICE.....	\$3 75	\$4 62	\$6 25	\$10 50	\$15 00	
DIAMETER...	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3 in.	

EXTRA DIES.



For No. 1 or 2	Stock.....	\$12 00
" 3 or 4	"	10 00
" 5 or 5 $\frac{1}{2}$	"	8 00
" 6	"	6 00
" 7 or 9	"	3 50
" 11 or 15	"	3 00
" 17 or 19	"	2 50
" 21 or 23	"	2 00
" 25, 27, 32	"	2 25
" 33	"	1 50
" 34	"	2 00
" 35, 37, 38, 41, 42	Stock.....	1 50
" 45 or 47	"	2 25
" 49 or 51	"	2 00
" 53	"	1 50



PULLEY TAPS,

With sharp V and U. S. S. Thread, of the following sizes, are kept in stock.
Other sizes and threads are made to order and furnished at special prices.

Diameter.	Pitch.		PRICES.						
			6 in.	8 in.	10 in.	12 in.	14 in.	16 in.	18 in.
2-3	14	16	\$ 80	\$ 90	\$1 10	\$1 30	\$	\$	\$
7-16	14	16	90	1 00	1 20	1 40	1 60	...	...
12-1	12	13	...	1 30	1 40	1 50	1 60	1 80	..
9-2	10	11	...	1 40	1 50	1 60	1 75	1 90	...
4-3	10		...	...	1 60	1 80	2 10	2 30	2 50

MACHINISTS' HAND TAPS.



TAPER.



PLUG.



BOTTOMING.

Diameter.	No. of Threads to Inch.	Price Each.	Price per Set.
$\frac{1}{4}$ Inch.	16, 18 and 20	\$ 45	\$ 1 35
$\frac{5}{16}$ "	16 " 18	50	1 50
$\frac{3}{8}$ "	14, 16 " 18	55	1 65
$\frac{7}{16}$ "	14 " 16	60	1 80
$\frac{1}{2}$ "	12, 13 " 14	70	2 10
$\frac{9}{16}$ "	12 " 14	80	2 40
$\frac{5}{8}$ "	10, 11 " 12	90	2 70
$\frac{3}{4}$ "	11 " 12	1 05	3 15
$\frac{7}{8}$ "	10, 11 " 12	1 20	3 60
$\frac{1}{2}$ "	10	1 40	4 20
$\frac{1}{2}$ "	9 " 10	1 60	4 80
$\frac{1}{2}$ "	9	1 80	5 40
$\frac{1}{2}$ "	8	2 00	6 00
$\frac{1}{2}$ "	7 " 8	2 25	6 75
$\frac{1}{2}$ "	7	2 60	7 80
$\frac{1}{2}$ "	6	3 00	9 00
$\frac{1}{2}$ "	6	3 50	10 50
$\frac{1}{2}$ "	5 " 6	4 20	12 60
$\frac{1}{2}$ "	5	5 00	15 00
$\frac{1}{2}$ "	4 $\frac{1}{2}$ " 5	5 80	17 40
2	4 $\frac{1}{2}$	6 70	20 10

Are made Standard Size unless specially ordered. Will furnish them Full Size without extra charge.

MACHINE OR NUT TAPS.

V and Franklin Institute Shape of Thread.

LONG SHANK,—RELIEVED.

Unless advised to the contrary, we fill all orders with V Threads.



Diameter.	No. Threads to Inch.			Price Each.
1/4	16	18	20	\$ 60
5-16	...	16	18	70
3/8	...	14	16	80
7-16	12	14	16	90
1/2	12	13	14	1 00
9-16	...	12	14	1 15
5/8	10	11	12	1 30
11-16	...	11	12	1 45
3/4	...	10	...	1 60
13-16	...	10	...	1 80
7/8	...	9	10	2 10
15-16	...	9	...	2 40
1	...	8	...	2 80
1 1/8	...	7	8	3 20
1 1/4	...	7	8	3 70
1 1/2	...	6	...	4 20
1 3/4	...	6	...	4 70
2	...	5	5 1/2	5 30
2 1/8	...	5	...	6 00
2 1/4	...	4 1/2	5	6 80
2 1/2	...	4 1/2	...	7 70
2 3/4	...	4 1/2	...	9 00
3	...	4 1/2	...	10 20
3 1/8	...	4 1/2	...	11 50
3 1/4	...	4	...	12 50
3 1/2	...	4	...	14 00
3 3/4	...	4	...	15 00
4	...	4	...	16 50
4 1/8	...	3 1/2	...	18 00
4 1/4	...	3 1/2	...	19 75
4 1/2	...	3 1/2	...	21 50
4 3/4	...	3 1/4	...	23 00
5	...	3 1/4	...	25 00
5 1/8	...	3	...	27 00
5 1/4	...	3	...	29 50
5 1/2	31 00
5 3/4	...	3	...	33 50

We keep in stock the above, and 1-32 over size for rough iron.

In ordering, always state exact diameter and thread wanted.

When exact duplicates are wanted, special orders should always be accompanied by a stub with a nut fitting same.